

FOURTH QUARTER 2013 UPDATE AND 2014 SCHEDULE OF PRIORITY ACTIVITIES FOR BETHPAGE REGIONAL PLUME

Task ID	Activity	Schedule – 2014*(Quarter)
JOINT NAVY/NORTHROP GRUMMAN PLANNING AND COORDINATION ACTIVITIES		
TASK 1 – MEETINGS AND JOINT DOCUMENT SUBMITTALS		
1.1	Meet with DEC and EPA	Completed 2013
1.2	Hold planning technical meeting	Completed 2013
1.3	Submit combined prioritized list of activities to address regional plume to DEC and EPA	Completed 2013
1.4	Share validated groundwater data that are in the public domain	Completed 2013
1.5	Hold quarterly Navy/NG technical meetings	2Q, 3Q, and 4Q
1.6	Hold semiannual meetings/calls with DEC and EPA	1Q (Completed), 3Q
NORTHROP GRUMMAN ACTIVITIES		
TASK 2 - COMPREHENSIVE GROUNDWATER SAMPLING ROUND ACTIVITIES TO UPDATE REGIONAL PLUME DATA		
2.1	Develop first draft of comprehensive groundwater sampling plan	Completed 2013
2.2	Submit sampling plan to DEC for approval	Completed 2013
2.3	Perform comprehensive groundwater sampling round	Completed 2013
2.4	Submit validated sampling data to DEC/EPA/USGS	Completed 2013
TASK 3 - OU-2 ONCT ACTIVITIES TO MAINTAIN EFFECTIVENESS OF PLUME CAPTURE		
3.1	Maintain operation of OU-2 ONCT	Ongoing
3.2	Complete Phase 2 of OU-2 ONCT evaluation	Completed 2013
3.3	Submit Phase 2 of OU-2 ONCT evaluation interim data report	1Q
3.4	Submit outline for OU-2 ONCT Periodic Review Report (PRR) to DEC that incorporates additional DEC-requested information	2Q
3.5	Submit PRR to DEC for OU-2 ONCT	2Q and annually thereafter
TASK 4 - GM-38 ACTIVITIES TO MAINTAIN CONTAINMENT OF HOT SPOT		
4.1	Comment to DEC and Navy on GM-38 work plans	Completed 2013

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TASK 5 - OTHER REGIONAL PLUME ACTIVITIES		
5.1	Maintain operation of OU-3 Groundwater IRM	Ongoing
5.2	Continue routine groundwater monitoring events	Ongoing
NAVY ACTIVITIES		
TASK 6 - GM-38 ACTIVITIES TO MAINTAIN CONTAINMENT OF HOT SPOT		
6.1	Maintain and optimize operation of GM-38 for local hot spot capture	Ongoing
6.2	Conduct water level monitoring of GM-38 area	Completed 2013
6.3	Conduct capture zone analysis for the wells at GM-38 and nearby extraction wells (BWD Plants 4, 5 and 6), including field measurements and groundwater flow modeling.	Completed 2013
6.4	Finalize GM-38 Capture Zone Evaluation Report	1Q
TASK 7 - VERTICAL PROFILE BORINGS		
7.1	Continue to delineate and define the extent of VOC-impacted groundwater near the onsite containment (ONCT) system, BWD Plant 6, and the southern portion of the western lobe by adding new VPBs and monitoring wells.	1Q 2014 – 1Q 2015
7.2	Install outpost wells at South Farmingdale Water District and Massapequa Water District well fields	1Q 2014 – 2Q 2015
TASK 8 - CONCEPTUAL SITE MODEL		
8.1	Prepare concise, comprehensive, conceptual site model (CSM) report describing the collection of impacts commonly referred to as the “Bethpage Plume”. Northrop Grumman will provide comments.	3Q
8.2	Pull together available information (e.g., recent VPB and monitoring well data) to update CSM on a routine basis.	Ongoing
TASK 9 – USGS MODELING		
9.1	Develop a steady state groundwater flow model with currently available site information for well fields in the southwest portion of the plume	3Q
9.2	Evaluate hydraulic capture zones for supply wells in southwest portion of plume, using updated information from new VPBs in the area	3Q 2015
COMPREHENSIVE GROUNDWATER SAMPLING ROUND ACTIVITIES TO UPDATE REGIONAL PLUME DATA		
	Navy review of draft comprehensive sampling plan	Completed 2013

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OTHER REGIONAL PLUME ACTIVITIES		
	Comment to DEC and NGC on Phase 2 of OU-2 ONCT evaluation interim data report	3Q
	Comment to DEC and NGC on revised OU-2 ONCT Periodic Review Report (PRR)	3Q
ACTIVITIES BY OTHERS		
DEC ACTIVITIES TO IMPROVE OVERALL PROJECT EXECUTION		
	Approval of comprehensive groundwater sampling plan	Completed 2013
	Approval of revised OU-2 ONCT Periodic Review Report outline	2Q
	Approval of OU-2 Periodic Review Report	3Q
	Establish protocol for document dissemination	2Q
	Formally respond to Navy and NG document submittals	Ongoing
	Respond to EPA request regarding other PRPs (e.g., source north of Oxy, dry cleaners, gas stations, PRP list provided by NG.)	2Q
	Provide quarterly pumpage data on a timely basis to NG and Navy, if requested	Ongoing
USGS ACTIVITIES		
	Build water quality data bank for regional planning and share with NG and Navy	Ongoing
WATER DISTRICT ACTIVITIES (BWD, SFWD, MWD, LIAW)		
	Provide monthly water quality and pumpage data on a timely basis to NG and Navy	NA; provided by NYSDEC and NCDOH
NCDOH ACTIVITIES		
	Provide monthly water quality data from water districts to NG and Navy, if requested	Ongoing

*Schedule also shows several tasks completed in 2013 and to be completed in early 2015.